Practice Question Implementing spring security

Entity

```
package com.sec.entity;
import java.util.Collection;
import
org.springframework.boot.autoconfigure.security.SecurityProperties.
User:
import org.springframework.security.core.GrantedAuthority;
import org.springframework.security.core.userdetails.UserDetails;
public class MyUserDetails implements UserDetails {
     private static final long serialVersionUID = 1L;
     private String userName;
     private String password;
     public MyUserDetails() {
     }
     public MyUserDetails(User user) {
          this.userName = user.getName();
          this.password = user.getPassword();
```

```
@Override
    public Collection<? extends GrantedAuthority>
getAuthorities() {
          return null;
     }
     @Override
     public String getPassword() {
          return password;
     @Override
     public String getUsername() {
          return userName;
     @Override
     public boolean isAccountNonExpired() {
          return true;
     @Override
     public boolean isAccountNonLocked() {
          return true;
```

```
@Override
     public boolean isCredentialsNonExpired() {
          return true;
     }
     @Override
     public boolean isEnabled() {
          return true;
package com.sec.entity;
import jakarta.persistence.Entity;
import jakarta.persistence.Id;
import jakarta.persistence.Table;
@Entity
@Table(name="user")
public class User {
     @Id
     private Integer id;
     private String name;
```

```
private String password;
```

```
public User() {
     super();
}
public User(String name, String password) {
     super();
     this.name = name;
     this.password = password;
}
public String getName() {
     return name;
}
public void setName(String name) {
     this.name = name;
public String getPassword() {
     return password;
public void setPassword(String password) {
     this.password = password;
```

```
Repositories
package com.sec.repo;
import java.util.Optional;
import org.springframework.data.repository.CrudRepository;
import org.springframework.stereotype.Repository;
import com.sec.entity.User;
@Repository
public interface UserRepo extends CrudRepository<User, Integer>{
    public Optional<User> findUserByName(String name);
Services
package com.sec.service;
import java.util.Optional;
```

```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.security.core.userdetails.UserDetails;
import
org.springframework.security.core.userdetails.UserDetailsService;
import
org.spring framework.security.core.user details. Username Not Found E\\
xception;
import org.springframework.stereotype.Service;
import com.sec.entity.MyUserDetails;
import com.sec.entity.User;
import com.sec.repo.UserRepo;
@Service
public class MyUserServices implements UserDetailsService {
     @Autowired
     UserRepo userRepo;
     public User GetUserByName(String name) {
          Optional<User> user =
userRepo.findUserByName(name);
          if(!user.isPresent()) throw new RuntimeException();
          return user.get();
```

```
@Override
    public UserDetails loadUserByUsername(String username)
               throws UsernameNotFoundException {
          return new MyUserDetails();
     }
}
Config files
package com.sec.service;
import java.util.Optional;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.security.core.userdetails.UserDetails;
import
org.springframework.security.core.userdetails.UserDetailsService;
import
org.springframework.security.core.userdetails.UsernameNotFoundE
xception;
import org.springframework.stereotype.Service;
import com.sec.entity.MyUserDetails;
import com.sec.entity.User;
```

import com.sec.repo.UserRepo;

```
@Service
public class MyUserServices implements UserDetailsService {
     @Autowired
     UserRepo userRepo;
    public User GetUserByName(String name) {
         Optional<User> user =
userRepo.findUserByName(name);
         if(!user.isPresent()) throw new RuntimeException();
         return user.get();
     @Override
     public UserDetails loadUserByUsername(String username)
              throws UsernameNotFoundException {
         return new MyUserDetails();
```

Webconfig

package com.sec;

import org.springframework.context.annotation.Configuration;

org.springframework.web.servlet.config.annotation.ViewControllerRegistry;
import org.springframework.web.servlet.config.annotation.WebMvcConfigurer;
@Configuration

 SpringSecurity [boot] [devtools] √

Æ com.sec MvcConfig.java SpringSecurityApplication.java > 🕖 WebSecurityConfig.java MyUserDetails.java > User.java description = com.sec.repo > II UserRepo.java →

⊕ com.sec.service MyUserServices.java →

src/main/resources application.properties > **#** src/test/java > March JRE System Library [JavaSE-17] > Maven Dependencies √ \$\overline{k} \in \text{src} main > 📂 java > 🔑 resources webapp index.jsp login.jsp welcome.jsp > 🗁 test > 🗁 target M HELP.md mvnw mvnw.cmd mx.mog

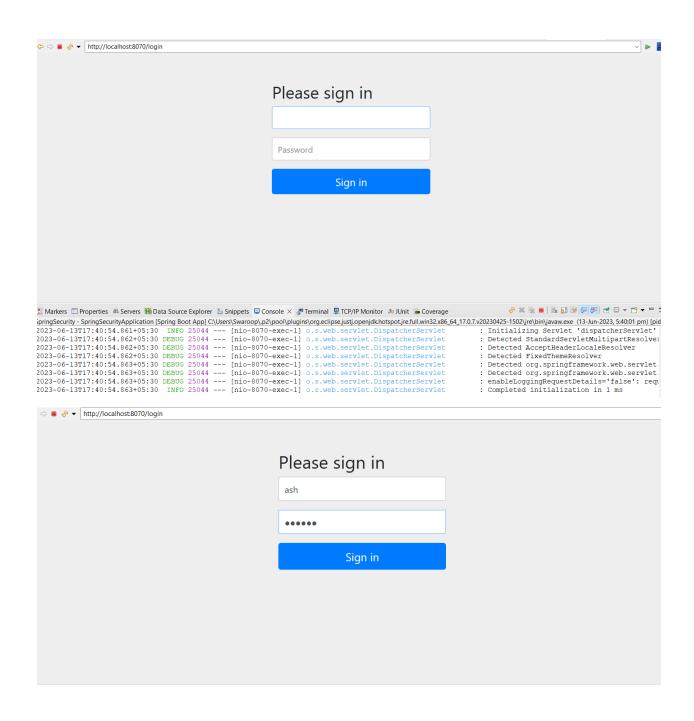
| Sample | Section | Secti



http://localhost:8070/welcome.html

Welcome!

Click here to see a greeting.



Welcome Ash GO back to the main menu